SAFETY TOOLS allmet

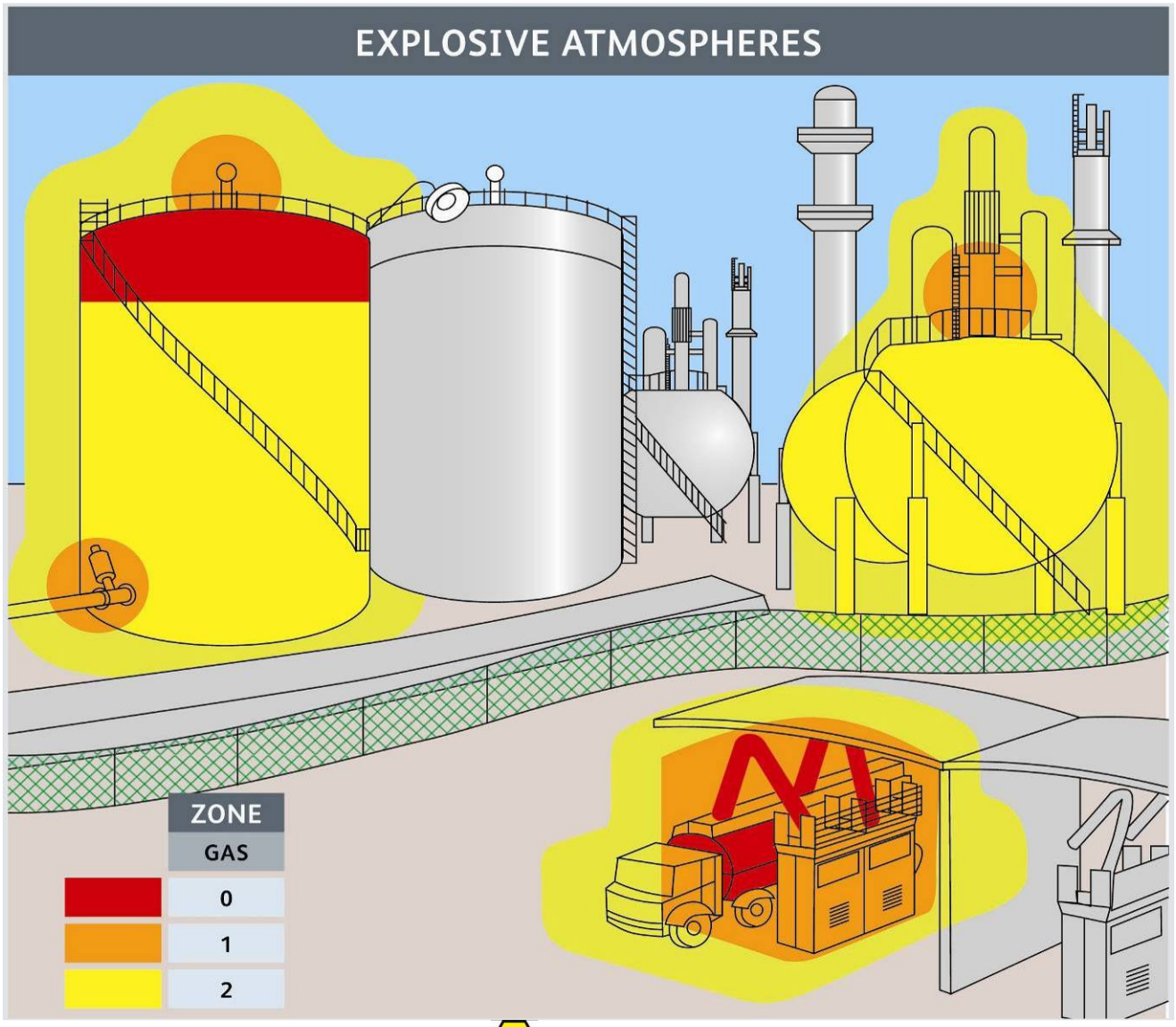
EX Certified Cutting Tools

User Manual Cutting Tools

II 2 G c T4

II 2 D c 101°

Cut the heat – cut the risk



II2GcT4

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Keep this manual in a safe, accessible place at all times

Keep this instruction manual for future reference. Additional safety information may be available from the authorized agent in your country. Consult them when necessary. Do not remove or allow to become obscure any labels or markings on the tool.

Important safety information

Read these instructions fully before use. Failure to do this may result in serious injury. The user of this equipment must be competent in its use. The user must ensure that the equipment is selected, installed and used in accordance with regulations and is checked fully before use. The equipment must only be used for its intended purpose and be maintained regularly.

Safety is a primary consideration when using Safety Tools equipment. The tools should be used in the correct way with a good understanding of how to use the tools safely. The tools together with attachments and accessories should only be used for the purpose for which they are designed. Safety devices and accessories supplied should be used appropriately. Do not use outside the design intent unless first agreeing upon such use with the manufacturer and/or authorized agent. Read and fully understand all the instructions before attempting to install, use, service or maintain the equipment. Training is available through Safety Tools Allmet and the authorized agent in your region. Training from Safety Tools Allmet and/or the Authorized agent in your region is required prior to using Safety Tools Cutting & Weld Seem Removal tools.

WARNING

To reduce the risk of injury, before using or servicing tool, read and understand the following information. The features and descriptions of our products are subject to change without prior notice.

This product is designed for cutting & removing material using abrasives. The abrasives are very hard and solid (9.7+ Rockwell scale). No other use permitted - for professional use only.

Before servicing of the pneumatic tool, the supply of compressed air must be disconnected or shut off

Trainining is required before using Safety Tools Cutting Equipment. Safety Tools Allmet offers training at our office in Norway and offsite. Training is also available through the Authorized Agent in your region.

***See water control box information on page 16 - 18 of this Manual.**

Disposal

When disposing of components, lubricants, etc … ensure that the relevant safety procedures are carried out

Air Pressure

Check hose size and air pressure. The air pressure at the tool inlet with the grinder running shall not exceed the maximum operating pressure of 7 bars or lower if other specified. The tool is designed for a working pressure of 6.3 bar (90 psig). The compressed air must be clean. The installation of a filter is recommended. For maximum efficiency and performance, comply with the specification of the air hose (antistatic, earthed hose). Avoid the risk of whipping hose – regularly check hose, hose fitting and clamp conditions.

Always use the correct and clean air hose and fittings and check that they are all in good condition and are properly installed. Do not use damaged, frayed or deteriorated hose end fittings. Replace them when necessary. Always store hoses properly. A hose failure can cause injury. The air hose may come off and whip. Use only earthed hosing in ATEX zones. See DNV report. Air should be supplied at a constant pressure of 6.3 Bar at the tool with the trigger fully depressed. In-Line lubricators and air filters are not required unless it is known that plant air supply is likely to be contaminated. It is recommended that oil is added to the tool after prolonged use. See maintenance information.

Water Pressure

Check hose size and water pressure. The water pressure shall not exceed the maximum operating pressure of 2.5 bar. The tool is designed for a optimum working pressure of 2.3 bar. The water must be clean. The installation of a filter is recommended. For maximum efficiency and performance, comply with the specification of the hose (antistatic, earthed hose). Avoid the risk of whipping hose – regularly check hose, hose fitting and clamp conditions.

Always use a clean water hose and fittings and check that they are all in good condition and are properly installed. Do not use damaged, frayed or deteriorated hose end fittings. Replace them when necessary. Always store hoses properly. A hose failure can cause injury. The hose may come off and whip. Use only earthed hosing in ATEX zones. See DNV report. Water should be supplied at a pressure greater than 4 Bar for maximum efficiency.

Cutting Tempratures

Safety Tools Allmet Explosive test were performed using a robotic system**.** It is not possible using non-machanical systems to reach high heat levels when the tools are used under human conditions. The average temprature range when using Safety Tools Cutting equiptment is 25℃ - 45℃. It is not possible to exceed 100℃ (T4) when using Safety Tools Cutting equipment under normal human conditions. See DNV Certificate.

Safety Tools Ex Grinding Equipment is suitable for use in ambient temperatures Greater than 0℃ to 40℃.

- Air supply must be dry & clean.
- Water Supply should be clean (filter recommended) and above 4 bar.

Types of Steel Tested

Safety Tools Allmet performed test on the 6 different materials, three different steel qualities and two different titanium qualities below.

- Stainless Steel Grade 316
- Steel ST52
- Titanium
- ASTM B265 Titanium
- Austenitic Stainless Steel 6MO

Maintenance

To obtain maximum efficiency from the pneumatic tool, preserve its features and avoid repeated repairs, a routine inspection and repair program are recommended at least every 1000 hours, the intervals between the various inspections depending on the amount of exertion on the power tool.

Safety Tools ATEX certified Air Tools must be properly maintained and tested by competent and trained personnel. At any sign of malfunction or unusual behaviour, the tool should be taken out of service for examination and repair. If repairs are necessary contact the authorized agent in your country. It is recommended to dismantle air tools for overhauling and cleaning after 500 hours of operation or once every six months.

- Before cleaning the tool for use make sure that it has been correctly assembled. With all fasteners tightened.
- Check the rotation frequency of the tool without an attached disk. After each maintenance or service.
- If you are uncertain about the correct way to service a tool contact the authorized agent in your region.
- Only trained people should service and maintain Safety Tools equipment.

***See water control box information on page 16 - 18 of this Manual.**

Check the free speed of the tool at regular intervals and after each operation or maintenance task. Remove the disk to check the speed. The maximum allowed speed shown on the tool must not be exceeded and the vibration level must not be excessive.

Motor speeds

These cold grinding tools are designed for use with the following motors:

Motor type	RPM	Max air pressure	Air hose diameter
(A-0105) Fuji FCD-10X-52 special	1000	6,3 Bar	9.5mm (3/8 inch)

Noise

The operator must wear ear protection when the noise level at his position exceeds 83dB or 85 dB. It is recommended that the operator wears the ear protector even if the noise level is less than 83dB or 85 dB.

Noise levels while grinding with Safety Tools Equipment.

- Lowest reading is 80 dB
- Highest reading is 85 dB
- Average reading is 80.5 dB

Vibration Analysis HAV

Averaged measurements while grinding with one of the Cutting Disk & Weld Seem Disk mounted on.
Grinding & Cutting was done on a 10 mm carbon steel plate

Item number	Air tool	Vibration Level
A-0105	FCD-10X-52	2.58 m/s²

Posture

Safety Tools are generally used as a hand-held unit. It is recommended that it is used whilst standing on a firm surface. It may be used in other positions but it is important that the operator is in a secure position and has a firm grip and footing. Refer to risk analysis for further guidance.

Safety Tools Allmet also has Robotic Systems and Automated Tool Guides. Contact Safety Tools Allmet or the Authorized Agent in your Region for more information.

Protective Equipment

Always wear necessary protective equipment when using this equipment. Safety goggles or face shield, gloves and hearing protection are required. Ensure all clothing is close fitting to prevent becoming snagged in moving parts.

Safety Goggles / face shield	**Mandatory**
Hearing Protection	**Mandatory**
Safety Gloves	**Mandatory**
Safety Hat	**Mandatory**
Respiratory Protection	**Optional**

Special Conditions

Projectile Hazards for misuse

- Always wear impact-resistant eye and face protection when involved with or near the operation, repair or maintenance of the tool or changing accessories on the tool.
- Be sure all others in the area are wearing impact-resistant eye and face protection.
- Even small projectiles can injure eyes and cause blindness.
- Use barriers to protect others from wheel fragments and grinding sparks.
- Daily measure the air tool speed with a tachometer to make sure it is not greater than the RPM marked on the grinding accessory.
- This Tool and its accessories must not be modified in any way.

Entanglement Hazards for misuse

- Keep away from rotating drive spindle and abrasive. Rotation may continue for several seconds after the throttle has been released. Do not lay the tool down until rotation has stopped.
- Do not wear jewelry or loose clothing.
- Choking can occur if neckwear is not kept away from tool and accessories.
- Scalping can occur if hair is not kept away from tool and accessories.

Mounting Hazards for misuse

- Always shut off air supply, relieve hose of air pressure and disconnect tool from air supply when changing accessories.
- Always shut off water supply, relieve hose of water pressure and disconnect tool from water supply when changing accessories.
- Use only recommended sizes and types of abrasives.
- Do not use files or disks that are cracked.
- Correct mounting is necessary to prevent injury.
- Safety Tools Air Tools are specially designed to work only with Safety Tools Cutting Disks. Only Use Safety Tools Air Tools and Accessories as they are designed. Do not use with other Accessories and or Air Tools.

Operating Hazards for misuse

- Operators and maintenance personnel must be physically able to handle the bulk, weight and power of the tool.
- Ensure that the work piece is properly supported.
- Maintain a balanced body position and secure footing.
- Avoid contact with rotating spindle and accessory to prevent cutting of hands and other body parts. Wear protective equipment listed.
- Do not use if vibration becomes excessive: check the accessory for damage or incorrect mounting.
- There is a risk of electrostatic discharge if used on plastic and other non-conductive materials.

Workplace Hazards for misuse

- Slip/Trip/Fall is a major cause of serious injury or death. Be aware of excess hose left on the walking or work surface.
- High sound levels can cause permanent hearing loss. Use hearing protection as recommended by your employer or occupational health and safety regulations.
- Repetitive work motions, awkward positions and exposure to vibration can be harmful to hands and arms. If numbness, tingling, pain or whitening of the skin occurs, stop using tool and consult a physician.

Air Supply and Connection Hazards for misuse

- Air under pressure can cause severe injury.
- Always shut off air supply, drain hose of air pressure and disconnect tool from air supply when not in use, before changing accessories or when making repairs.
- Never direct air at yourself or anyone else.
- Whipping hoses can cause serious injury. Always check for damaged or loose hoses and fittings.
- Whenever universal twist couplings are used, lock pins must be installed.
- Do not exceed maximum air pressure of 6.3 bar/90 psig or as stated on tool nameplate.
- Check and maintain air hoses regularly.
- Use only Earthed/Anti-Static Hoses (2mm Maximum thickness on coatings) See DMV information.
- Make sure the air supply is clean and dry.
- The ambient temperature for safe use must be greater than 0℃.

Water Supply and Connection Hazards for misuse

- Water under pressure can cause severe injury.
- Always shut off water supply, drain hose of air pressure and disconnect tool from water supply when not in use, before changing accessories or when making repairs.
- Never direct water at yourself or anyone else.
- Whipping hoses can cause serious injury. Always check for damaged or loose hoses and fittings.
- Whenever universal twist couplings are used, lock pins must be installed.
- Do not exceed maximum water pressure of 10 bar from water supply
- Check and maintain water hoses regularly.
- Make sure the water supply is clean.
- The ambient temperature for safe use must be greater than 0° Celsius. Water may freeze on temperature close to 0° Celsius. Make sure water dos not freeze before use.

Preparation

Before Start-up

- Make sure that the work station and the surroundings are safe and clear of any oil, grease etc.
- Make sure that there is sufficient space for the cutting tool and the task to be carried out.
- Provide for the best access for air hoses.
- Provide for the best access for water hoses.
- Verify that the working pressure is 6,3 bar for the rotating Air engines.
- Verify that the water pressure supply to the control box is above 4 bar.

WORKING POSITION

- Use the correct lifting technique. Do not ever use the hose as a lifting handle.
- Adopt a good stance and avoid overreaching
- Make sure that air hoses are fitted with whip checks.
- Make sure that water hoses are fitted with whip checks.

ASSEMBLING THE TOOL

- The operator must use the correct grinding tool for the task at hand.
- Install the rotating file or disk.
- Do not exert unnecessary force during this work.
- Make sure that the equipment has the required marking in accordance with the ATEX. / DNV certificate.
- Do not modify the tool without first contacting Safety Tools Allmet
- Do not use the tool until you are completely familiar with its operation.
- The tool is to be earthed. Use a antistatic hose with a steel wire. Se DNV certificate for more information
- Do not use the equipment if it emits unusual sounds, or if it vibrates or the speed varies.
- Do not touch a rotating file ore disk during operations, as this may lead to injury.
- If you have long hair or wear loose garments, be careful so as to avoid your hair or garment being caught in the equipment. Make sure hair and garments is not near the rotating parts.

READY FOR USE

- Make sure that the grinding/cutting tool is fitted with safety START \STOP
- Verify that the air hose has been installed in accordance with current regulations. This applies to all connections.
- Inspect the hoses visually to ensure that they do not leak air.
- Test the machine by using the tool for approx. 30 seconds to make sure that everything has been correctly installed.
- Before using review Water Control Box information on Page 16 & 17 of this manual.

START-UP OF ROTATING DISKs

- Wear mandatory personal safety equipment
- Make sure that you use the appropriate working posture.
- The Cutting machine must be in operation when it is put down on the work place.

- Do not apply too much force while grinding or cutting. This will increase the efficiency and lifespan of the motor & disk.
- Place the file on the work piece and pull it toward you. Guide the file back and repeat the process until the desirable stripping has taken place.
- The ambient temperature for safe use must be greater than 1℃.
- In the event of change of equipment, isolate the air supply before this is done.
- In the event of protracted stops the air & water supply is to be isolated and disconnected.

AFTER USE MAINTENACE

- Clean the Air engines.
- Lubricate the air engines. One drop of air motor oil into the air supply connector is optimal after prolonged use.
- Clean the cutting tools.
- Dry the cutting tools.
- Place the tool in the safety suitcase securely.
- Remove any grinding residues from the place of work.
- Make sure that the safety suitcase is stored in an appropriate manner.
- It is recommended to dismantle Safety Tools Air tools for overhauling and cleaning periodically after 500 hours of operation or once every six months. Service of Safety Tools equipment should only be done by Safety Tools Allmet or an authorized Safety Tools agent.
- Safety Tools Allmet Water Control Box should be serviced and maintained after 500 hours of operation. Contact Safety Tools Allmet or the Authorized Agent in your region for Water Control Box Maintenance information.

Cutting & Weld Seam Equipment Overview.

WATER CONTROL BOX

Prod.nr.	⚖ (kg)
A-0310	16

The Water Control Box is used to regulate the flow of air and water. There are internal regulators & filters that help to keep a consistent flow. Settings must be adjusted prior to each use. On top there are 4 gauges: Water Inlet, Water Adjust, Air Inlet & Air Adjust. These need to be set according to the information on page 16 & 17 in this manual.

Training is required prior to using through Safety Tools or the authorized agent in your region.

FUJI ANGLE GRINDER

Prod.nr.	Speed	Prod. name	⚖ (g)	Air inlet
A-0105	1000 rpm	FCD-10X-52	2400	1/4" NPT

The Fuji Angle Grinder A-0105 has special guards that are attached to for both the Cutting & Weld Seem Disks. When used with the Cutting Disk there are also two special chucks that are used to hold the disk firmly in place. This Angle grinder is the same machine we use with our Grinding Disk for Paint.

Weldsem disk

Prod.nr.	⚖ (g)	Dim
A-0503	1420	Ø 110 x 10 mm

The Weld Seam Disk is 10mm thick. On many of the jobs our clients use this disk in combination with our Cutting Disk - at a 45 degree angle.

*Weld Seam Disks can be re-surfaced 3 to 4 times for 1/3 of the disk price.

Cutting Disk

Prod.nr.	⚖ (g)	Dim
A-0502	652	Ø 110 x 5 mm

The Cutting Disk is 5mm thick and gives a very clean cut. It works more like a milling tool than a cutting tool. The special design of the cutting teeth and the hardness along with the slow rotation speed our air tool allow it to cut through very dense steel.

*Cutting Disks can be re-surfaced 3 to 4 times for 1/3 of the disk price.

ARMOURED HOSE

Prod.nr.	⚖ (g)	Dim
A-0071		5 meters

The Armored Hose has both water and air incorporated into it. See DNV Certificate for detailed information.

GUARD FOR CUTTING SYSTEM

Prod.nr.	⚖ (g)	Dim
A-0073	162	Ø-125 mm

The Guard for Cutting System attaches to the Fuji Angle Grinder (A-0105) with a Phillips head screwdriver. In the corner there is a hole where the Water Nozzle Connector (A-0079) is attached.

GUARD FOR WELDSEAM SYSTEM

Prod.nr.	⚖ (g)	Dim
A-0074	192	Ø-125 mm

The Guard for Weld Seam System attaches to the Fuji Angle Grinder (A-0105) with a Phillips head screwdriver. In the corner there is a hole where the Water Nozzle Connector (A-0079) is attached.

NOZZLE WITH CONNECTOR

Prod.nr.	⚖ (g)	Dim
A-0079	20	M6 - 0.6 MM

Water Nozzle with Connector is the water supply line incorporated into the hose system. It should be screwed into the Guard before it is attached to the water supply hose.

CUTTING DISK CHUCK Back piece

Prod.nr.	(g)	Dim
A-0077a	56	42 x 10 mm

There are two Cutting Disk Chucks. The Back Piece should be placed back view towards the Air Tool. The two sprockets should face outward towards the Cutting Disk.

CUTTING DISK CHUCK Front piece

Prod.nr.	(g)	Dim
A-0077b	60	42 x 10 mm

The Front Piece of the Cutting Disk Chuck is attached after the Cutting Disk. The back view should be faced towards the Cutting Disk. Use the Chuck Key to tighten.

CHUCK KEY

Prod.nr.	(g)	Dim
A-0206	226	200 X 30 mm

The Chuck Key is used to tighten the front piece of the Cutting Chuck. Insert the two sprockets into the front piece of the Cutting Disk Chuck and turn clockwise to tighten and counterclockwise to loosen. Use the Allen Key in unison with force applied in the opposite direction when putting on and taking off.

ALLAN KEY 6mm

Prod.nr.	(g)	Dim
A-0207	30	6 x 95 mm

6mm Allen Key is used to in unison with the Chuck Key force should be applied in the opposite direction when (counterclockwise) putting on and (clockwise) when taking off the Cutting Disk Chuck (front piece).

Safety Tools Air Tools, Cutting Disk & Weld Seam Disk

Safety Tools Allmet has two Disks that attach to our Ex Air Tool (A-0105). A Cutting Disk (A-0502) and a Weld Seam Removal Disk (A-0503). Both disks have separate safety Guards that are attached to the Air Tool (see page 10). Both disks also are attached with a different method. See page 13 for the Cutting Disk and page 14 for the Weld Seam Disk.

*See Cutting & Weld Seam Disk attach and remove instructions on pages 13 - 15 of this manual.

Water Control Box

Both systems use water and air that flow through our Water Control Box (A-0310). There are water adjustments that you set before each use. These help regulate a consistent water flow between 2 & 2.5 Bars. When flow is set properly water use is approximately 6 liters per hour.

There are 4 gauges on top of the box:

- Water Inlet – Water pressure in to the box - 4 Bar minimum
- Water Adjust – Set using water adjustments on side of box (see arrows above)
- Air Inlet – 7.3 Bar Optimal
- Air Adjust – 6.3 Bar Maximum

*See Water Control Box operating instructions on page 15 - 18 of this manual.

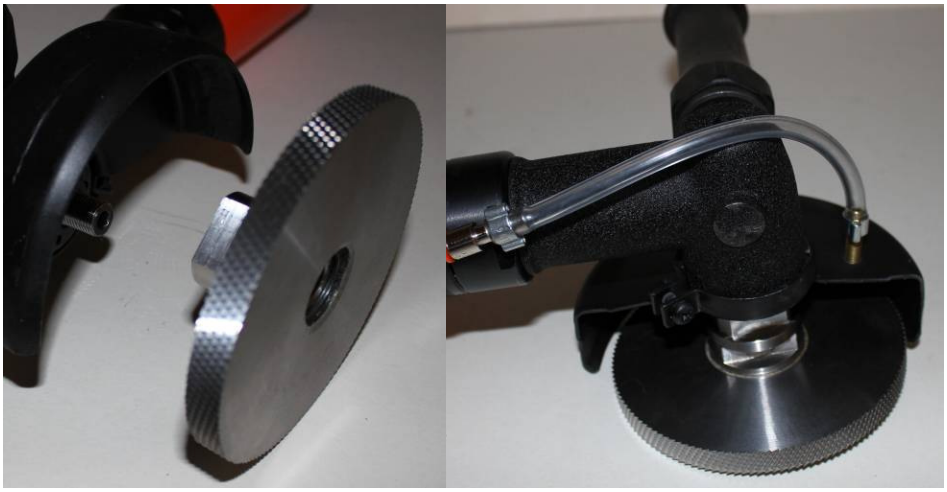
Weld Seam Disk Mounting

When attaching and removing the Weld Seam Disk (A-503) to the A-0105 Air Tool you will need the following accessories:

- 6mm Allen Key
- 22 mm Spanner (not included)
- Vise with soft grip (optional – not pictured)

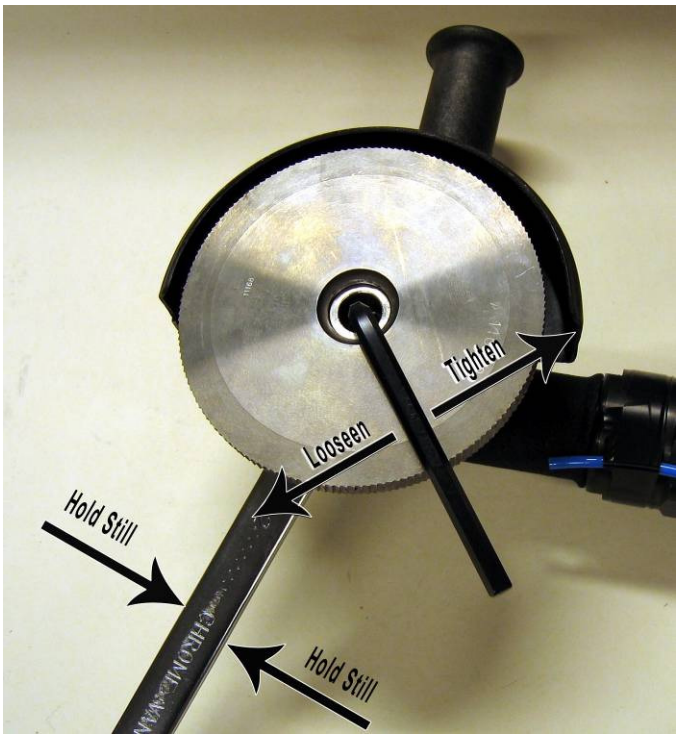
Below left picture:

- Attach using gloved hands the Weld Seam Disk to A-0105 Safety Tools Ex Air Tool
- Screw Disk threads clockwise to put on - and counter clockwise to take off the Weld Seam Disk



After the Weld Seam Disk is attached examine the Guard for Weld Seam (A0074) - if needed adjusts using a Philips Screw Driver (not included). The guard should not be in contact with the Weld Seam Disk

Make sure the Water Nozzle with Connecter (A-0079) is secure and in place (should not be in contact with inside of Weld Seam Disk.



To complete the tightening of the Weld Seam Disk use the 22mm Spanner and the 6mm Allen Key.

- Place the 22mm Spanner on the inside sprocket of the Weld Seam Disk and hold firmly in place
- Insert 6mm Allen Key as shown in the picture to the left and firmly hand turn Allen Key counter clockwise. The Weld Seam disk will tighten when used it needs to be only hand tightened with the Allen Key

To remove the Weld Seam Disk reverses the process.

*Only Trained and Certified people should remove or attach the Weld Seem Disk to the Air Tool.

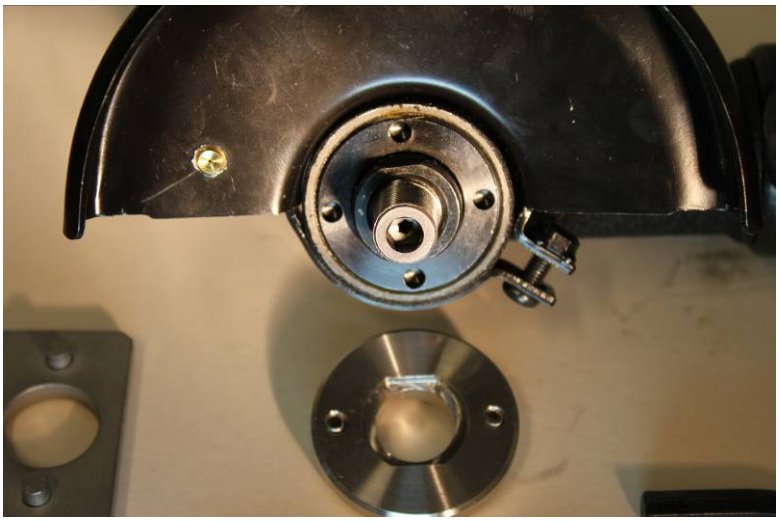
*Safety Tools also recommends wiping a little copper slip grease in the threads of the disk before and after use.

Cutting Disk Mounting

When attaching and removing the Cutting Disk (A-0502) to the A-0105 Ex Air Tool you will need the following accessories:

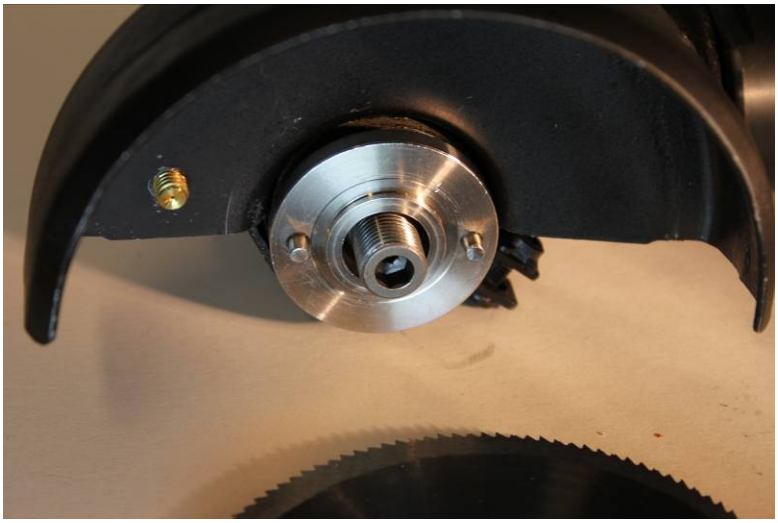
- 6mm Allen Key
- Cutting Disk Chuck – Back (A-0077a)
- Cutting Disk Chuck – Front (A-0077b)
- Chuck Key (A-0206)

*Training required before use.



Step 1
Place Cutting Disk Chuck (A0077) back view first on to the (A-0105) Air Tool sprocket. Make sure it is fit into the notched bolt extending out of the tool.

*Training required before use.

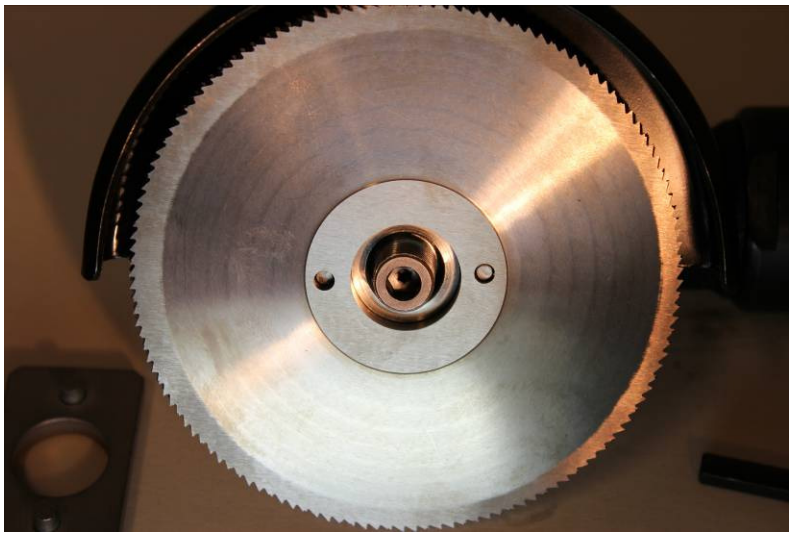


Step 2
After the above step is completed the picture to the left is how your mounting should look. There are 2 sprockets that extend out of the front face of the (A0077a) Chuck.

At this stage you are ready to put on the Cutting Disk (A-0502). Line up Cutting Disk with two sprockets and insert the disk into sprockets.

*Make certain that that the Cutting Disk teeth are facing forward and down.

Cutting Disk Mounting continued

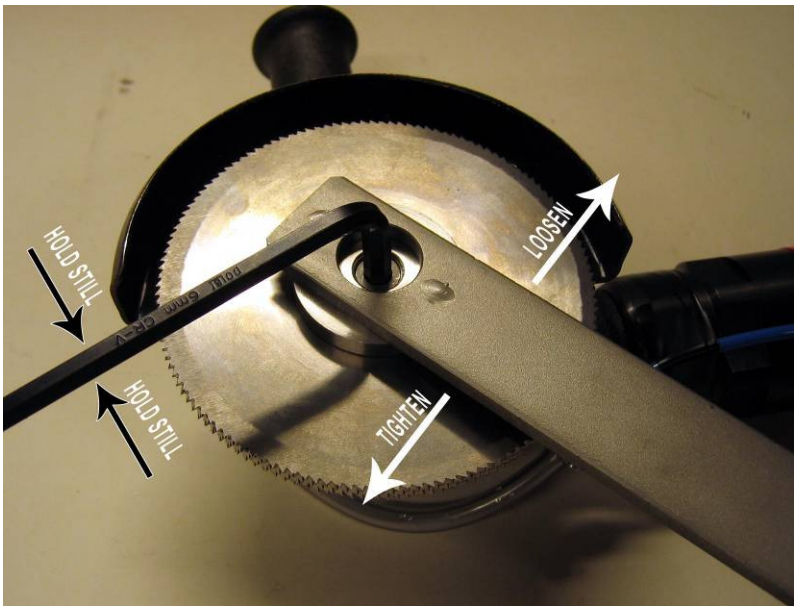


Step 3
After the Cutting Disk (A-0502) is in place screw on Front Piece of the Cutting Chuck (A-0077b) back view facing the disk (see page 11). Screw on clockwise by hand until tight.

*Only Trained and Certified people should remove or attach the Weld Seem Disk to the Air Tool.

Step 4
After the Front Piece of the Cutting sprocket is hand tightened on, you are ready to complete the tightening using the Allen Key and the Chuck Key.

*Only Trained and Certified people should remove or attach the Weld Seem Disk to the Air Tool.



Step 5
To complete the tightening of the Cutting Disk use the Cutting Chuck Spanner and the 6mm Allen Key.

- Place the Cutting Chuck Spanner into the two holes of the front piece of the Cutting Chuck.
- Insert 6mm Allen Key as shown in the picture to the left and firmly hand turn Allen Key counter clockwise Turn the Cutting Chuck Key clockwise with a firm strong grip.

*To remove the Cutting Disk reverses the process.

Water Control Box

Safety Tools Allmet sends out the Water Control box with Cejn Serie 310 ¼ inch BSP connectors (outside threads). These can be changes to meet your standards. If you have any question contact Safety Tools Allmet or the authorized agent in your region.

*Only Trained and Certified people should remove or attach the Weld Seem Disk to the Air Tool.

Adjustments & Inlets

On one side of the Water Control Box there is:

- Water Inlet Adjustment - controls water flow in
- Water Outlet Adjustment -regulates water flow
- Water Drain - Drains excess water
    - Use before and after set-up to drain water
- Water Inlet - Connect water into box
- Air Inlet - Connect water into box

*Only Trained and Certified people should remove or attach the Weld Seem Disk to the Air Tool.

Air & Water Outlets

On the opposite side of the Water Control Box there is the Air & Water outlet. This is where the hose's from the T4 Ex Air tool is connected. Connect the water before the air.

- Air Outlet – Air flows from Water Control Box to Air Tool
- Water Outlet – Water flows form Water Control Box to lubricate Cutting & Weld Seam Disk

*Only Trained and Certified people should remove or attach the Weld Seem Disk to the Air Tool.

Water Control Box

Gauges

There are 4 gauges on top of the Water Control Box

- Water Inlet - 4 Bar minimum
- Water Adjust 2.2 – 2.5 Bars
  - Use water adjustments valves on side to set
- Air Inlet - 7.3 Bar Optimal
- Air Outlet – 6.3 Bar Maximum

*Only Trained and Certified people should operate the Water Control Box.

Water Gauges

The Water pressure into the box needs to be:

- 4 Bar minimum
- 10 Bar maximum

The Water Adjust Gauges need to be adjusted between 2.2 to 2.5 for the Air Tool to operate. If the water pressure goes below 2 bars the tool will automatically shut off. If the water pressure goes above 3 bars the tool will automatically shut off.

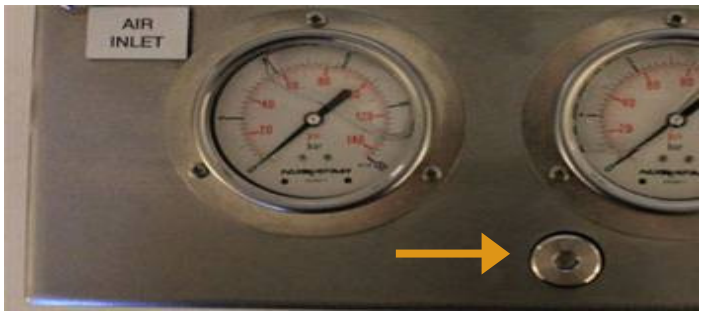
Air Gauges

- Air Inlet (7.3 Bars Optimal)
- Air Adjust (6.3 Bars Maximum)

*The Oil Refill is also on the top of the box

*Only Trained and Certified people should operate Safety Tools Allmet Water Control Box.

Water Control Box



Oil Refill
Remove and replace with 6mm Allen Key. Oil should be checked before use and monitored. Fill with Air tool oil (see picture below)

*Only Trained and Certified people should operate Safety Tools Allmet Water Control Box.

Water & Oil Monitoring
On one side of the Water Control Box. This is where you monitor excess water in the box and check Air Tool Oil level.

*Only Trained and Certified people should operate Safety Tools Allmet Water Control Box.

Setting the Water Control Box for use

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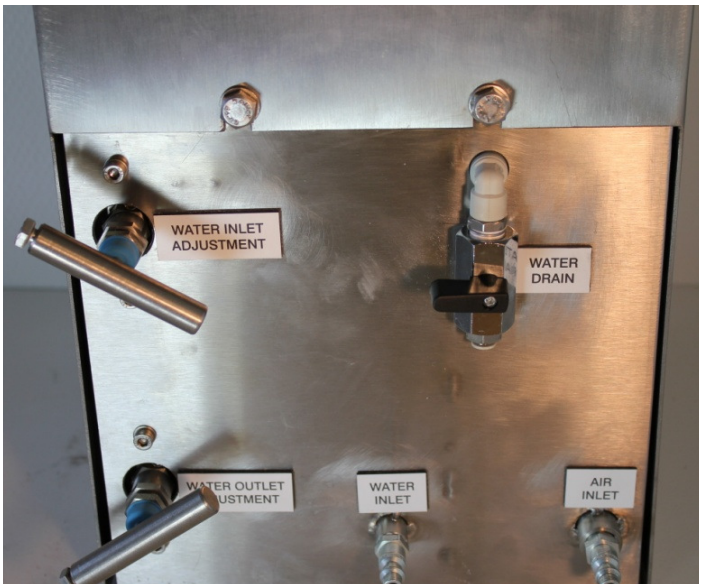


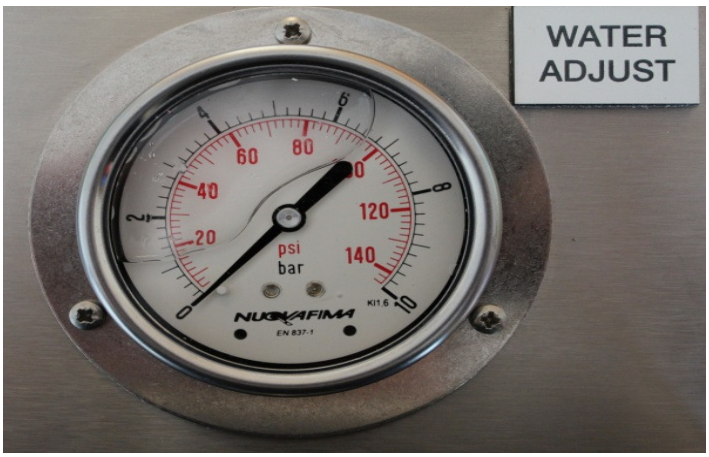
Step 1

- Make sure Water Drain valve is closed.
- Turn Water **Inlet** Adjustment valve clockwise until closed
- Turn Water **Outlet** Adjustment valve clockwise until closed
- Attach Air & Water hoses to Inlets
- Attach air and water hose from Air tool to water outlet and air outlet o the control box.
- Turn Water **Outlet** & Water **Inlet** valves Adjustments approximately 1/16th of a turn counter clockwise (open).

Step 2

- Hold Air Tool Trigger on and check flow of water flowing from the Water Nozzle to the Disk. It should be a light spray. Adjust water outlet adjustment valve to desired water flow.
- Continue to hold the trigger on the Air Tool and gently adjust the Water Inlet Adjustment valve so that the Water Adjustment Gauge is set between 2.2 - 2.5 Bars.
- Release Air Tool Trigger and wait for Water Adjust Gauge to drop to Zero.

The system is now set and ready for use. Test by holding the Air Tool Trigger. It may take a few second before Air tools goes with full throttle.



Warnings

Warning statements describe conditions which may lead to personal injuries including fatal injuries if the tool is not used properly and the warnings are not fully followed.
Caution statements describe conditions which may lead to equipment damage.

Warning: Do not use this tool until you are completely familiar with the safe operation of the tool, all accessories and safety devices. Improper use can lead to severe injury. This Manual defines proper use of this equipment. Before using this tool for any other use, please consult the manufacturer. Please consult your dealer if you you do not understand any part of this manual or operating procedure for this tool

Warning: Always shut off and disconnect the tool from the energy source when not in use or left unattended for any time. The air in the tool and supply hose should be discharged prior to disconnecting from the energy source.

Warning: Do not lay the tool down until all rotating parts have come to a complete stop.

Warning: The tool should be earthed via proper connection to a certified air hose.

Warning: All air hose connections should be secured using”whip-check” restraining devices

Warning: Do not exceed the maximum air pressure.

Warning: Always use safety goggles with this tool. Ordinary safety spectacles are not suitable. Full face shields may also be used.

Warning: Use gloves at all times when using this tool. Gloves should be suitable for the task

Warning: Adding unsuitable accessories can create hazards. Use accessories or attachments only in accordance with the operating instructions.

Warning: Do not wear loose clothing whilst operating this tool. Neckties, rings, bracelets or other jewellery may get caught in the tool and should be removed or covered. Good non-slip footwear is recommended. Wear protective hair covering to contain long hair.

Warning: Keep a good footing and balance at all times. Don’t overreach. A rotating wheel can catch an article of clothing and cause personal injury.

Warning: Secure work. Use clamps if necessary to secure the work piece.

Warning: Only use this tool in well lit and ventilated areas. If necessary, wear respiratory Protection from dust created from the use of this tool

Warning: Do not fit any damaged accessories to this tool. Only use accessories in good condition free from visible cracks.

Caution: Use the correct tool. Don’t force tool or attachment to execute a task for which it is not intended